

Explorers Program Overview

Greg Frazier

Deputy Program Manager – Explorers

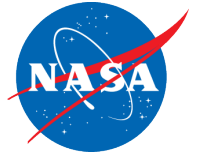
•—————•
2014 Explorers Astrophysics

SMEX and MoO Kick-off

August 24, 2015



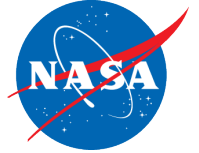
Explorers Program Overview (1 of 2)



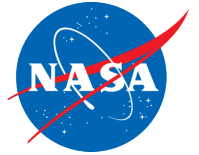
- NASA's oldest, continuous program
 - Over 100 successful missions since 1958
- Program Objective—Frequent flight opportunities for world-class scientific investigations
- Uncoupled program of missions with unique science capabilities supporting heliophysics and astrophysics science goals



Explorers Program Overview (2 of 2)



- Mission class characterized by size, schedule, and budget cost caps
 - MIDEX
 - SMEX
 - UNEX
 - Mission of Opportunity
 - Missions solicited through Announcement of Opportunity
 - Missions developed in Principal Investigator mode
 - Program Management oversight provided by the Explorers Program Office at GSFC
-



Explorers Missions

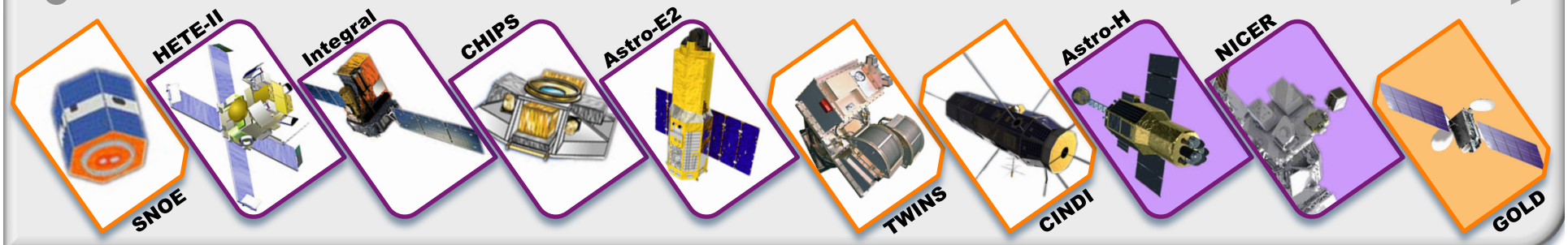
MIDEX



SMEX



UNEX • MO • INTERNATIONALS

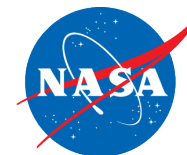


 Astrophysics Missions

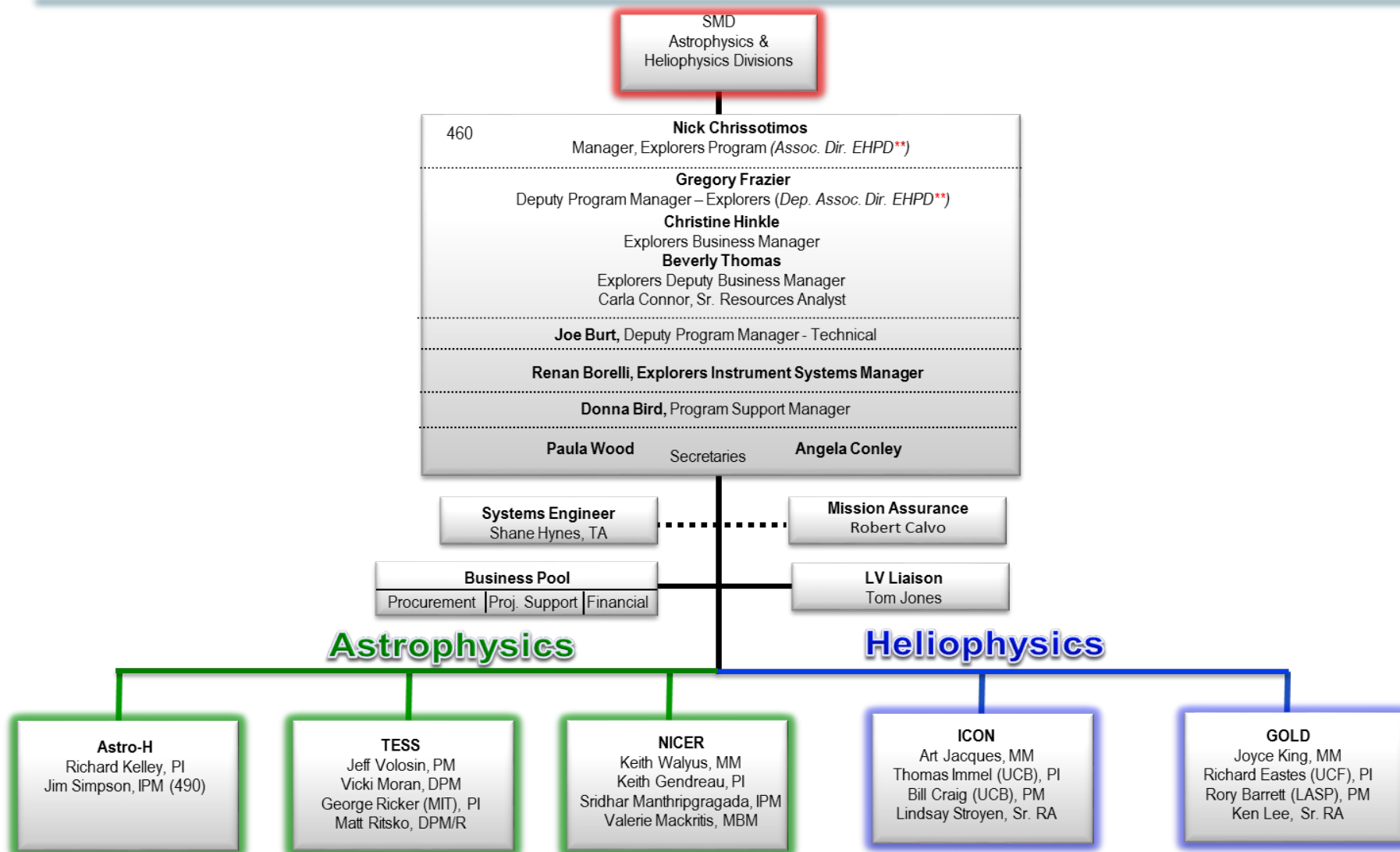
 Current Astrophysics Missions

 Heliophysics Missions

 Current Heliophysics Missions



Explorers Program Organization Chart



****Explorers & Heliophysics Projects Division (EHPD)**

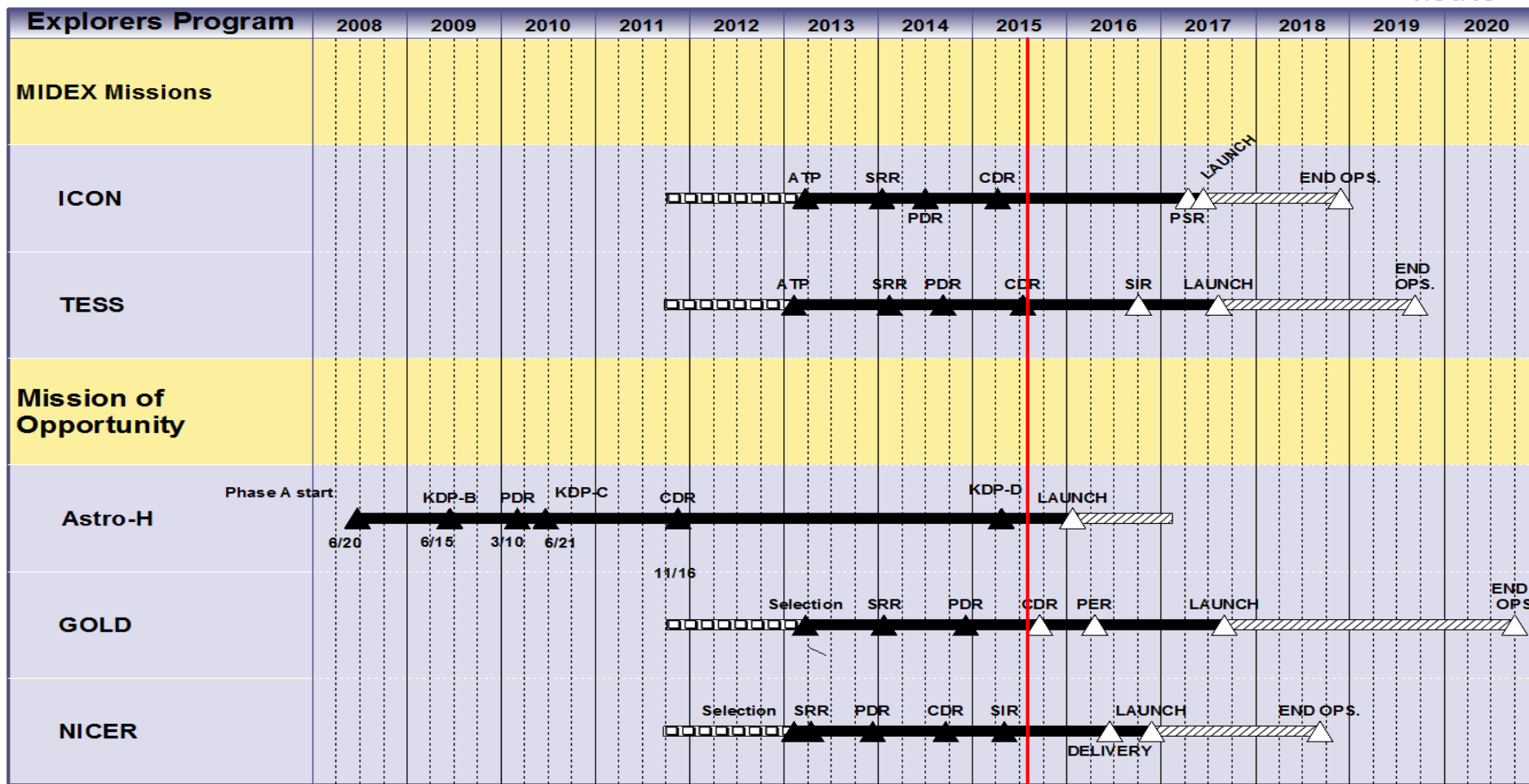
v8/18/15



Explorers Program Master Schedule



7/31/15

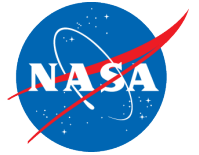


— Development

▨ Prime Mission



Mission Development Responsibilities



- **NASA responsibility**

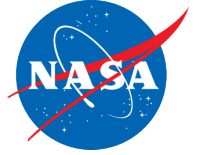
- Program administration
- Moderate insight/oversight
- Project review process
- Technical Authority
- Launch vehicle procurement

- **PI responsibility**

- Level-1 science requirements/design concept
 - Mission implementation
 - Technical, cost, and schedule performance
 - Peer reviews
 - Safety and mission assurance
 - › PAIP—Product Assurance Implementation Plan (based on Explorers Mission Assurance Requirements)
-



Additional Information



Explorers Website:

<http://explorers.gsfc.nasa.gov>

Explorers Library Websites:

<http://explorers.larc.nasa.gov/APSMEX/SMEX/programlibrary.html>

and

<http://explorers.larc.nasa.gov/APSMEX/MO/programlibrary.html>
